SIGNATURE

Under the Paperwork Red

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

espond to	a collection of info.	a unless it displays a valid OMB control number					
Attorney Docket No.		1488.1280006/EKS/EJH					
First Inventor		Ying-Fei Wei					
Title	Title Tumor Necrosis Factor Receptor 5						
Express	Mail Label No.						

	Assistant Commission - Co. Dataset								
APPLICATION ELEMENTS - See MPEP chapter 600 concerning utility patent application contents.	ASSISTANT Commissioner for Patents Box Patent Application Washington, DC 20231								
1. Fee Transmittal Form (e.g., PTO/SB/17)	7. CD-ROM or CD-R in duplicate, large table or Computer Program								
(Submit an original, and a duplicate for fee processing) 2. Applicant claims small entity status.	8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF)								
See 37 CFR 1.27.									
3. Specification [Total Pages 73]	b. Specification Sequence Listing on:								
(preferred arrangement set forth below) - Descriptive title of the Invention	i. CD-ROM or CD-R (2 copies); or								
Cross Reference to Related Applications Statement Regarding Fed sponsored R & D	ii. 🛛 paper								
Reference to sequence listing, a table, or a computer program listing appendix	c. Statements verifying identity of above copies								
- Background of the Invention	ACCOMPANYING APPLICATION PARTS								
Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure									
사실 - Detailed Description 라는 - Claim(s)	9. Assignment Papers (cover sheet & document(s))								
원 - Abstract of the Disclosure 합	10.								
Drawing(s) (35 U.S.C. 113) [Total Sheets 23]	(when there is an assignee) and two Powers of Attorney								
Sample Control Contr	11. English Translation Document (if applicable)								
a. ☐ Newly executed (original or copy) b. ☑ Copy from a prior application (37 CFR 1.63(d))	12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations								
(for continuation/divisional with Box 18 completed)	13. Preliminary Amendment								
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)	14. Two (2) Return Receipt Postcard (MPEP 503) (Should be specifically itemized)								
1.63(d)(2) and 1.33(b).	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)								
Application Data Sheet. See 37 CFR 1.76.	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.								
	17. Other: Authorization under 37 C.F.R. § 1.136(a)(3)								
	Other: The name of the assignee is: Human Genome Sciences, Inc.								
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: □ Continuation ☑ Divisional □ Continuation-in-Part (CIP) of prior application No: 09/006,353 Prior application information: Examiner Eileen B. O'Hara Group/Art Unit: 1646 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only relied upon when a portion has been inadvertently omitted from the submitted application parts.									
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	A CONTRACT OF THE CONTRACT OF								
Customer Number or Bar Code Label	or Correspondence address below								
Customer No. 28730 (Insert Customer No. 28730 (I									
NAME STERNE, KESSLER, GOLDSTEIN & FOX DOC/ 3U									
Attomeys at Law PATENT TRADEMARK O	PRICE								
ADDRESS	Tan cons								
-CITY STATE	ZIP CODE								
COUNTRY TELEPHONE	FAX								
NAME (Print/Type) Elizabeth J. Haanes, Ph.D. , Registration No. (Attorney/Agent) 42,613									



fee TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)2,362.00

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Complete if Known						
Application Number	To be assigned					
Filing Date	Herewith					
First Named Inventor	Ying-Fei Wei					
Examiner Name	To be assigned					
Group Art Unit	To be assigned					
Attorney Docket No.	1488.1280006/EKS/EJH .					

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)								
		3. ADDI Large	TIONAI Entity		Entity					
Deposit Account Number	19-0036	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Do	escription	Fee paid		
Deposit Account Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.	105	130	0 205	65	Surcharge - late filing fo	ee or oath			
		127	50	0 227	25	Surcharge - late provisional	rcharge - late provisional filing fee or cover sheet			
☐ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17		139	130	0 139	130	Non-English specific				
Applicant claims small entity status Sec 37 CFR 1.27		147	2,520	0 147	2,520	For filing a request for	ation			
		112	920*	112	920*	Requesting publication o action				
2. Payment Enclosed:		113	1,840*	113	1,840*	Requesting publication o	ction			
Check Credit card Money Order Other *Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.			110	215	55	Extension for reply wi				
## P11	FEE CALCULATION	116	390	216	195	Extension for reply wi	thin second month			
1. BÁSIC FILING	FEE	117	890	217	445	Extension for reply wi				
Large, Entity Sma		- 118	1,390	218	695	Extension for reply wi	thin fourth month			
Fee Fee Fee Code (\$) Code		128	1,890	228	945	Extension for reply wi	thin fifth month			
10 710 201	355 Utility filing fee 710.00	119	310	219	155	Notice of Appeal				
106 320 206	160 Design filing fee	120	310	220	155	Filing a brief in support of an appeal				
107 490 207	245 Plant filing fee	121	270	221	135	Request for oral hearing				
108 🌲 710 208	355 Reissue filing fee	138	1,510	138	1,510	Petition to institute a	ng			
114 150 214	75 Provisional filing fee	140	110	240	55	Petition to revive - una	avoidable			
			1,240	241	620	Petition to revive - uni				
SUBTOTAL (1) (\$) 710.00		142	1,240	242	620	Utility issue fee (or rei				
		143	440		220	Design issue fee				
			600	244	300	Plant issue fee				
		122	130	122	130	Petitions to the Comm	nissioner	i		
2. EXTRA CLAIM	FEES Fee from Extra below Fee Paid	123	130		130	Petitions related to pro-	•••			
Total Claims 94	- 20** = 74 X 18 = 1,332.00	126	180	126	180	Submission of Informa	ation Disclosure Str	nt		
Indep. Claims 7 3** = 4			40	481	40	Recording each pater property (times number				
Multiple Dependen		146	710			Filing a submission at (37 CFR 1.129(a))				
Large Entity Sma Fee Fee Fee Code (\$) Cod	Fee Fee Description	149 179	710 710			For each additional invention to be examined (37 CFR 1.129(b))				
103 18 203 102 80 202	 9 Claims in excess of 20 40 Independent claims in excess of 3 					Request for Continued Examination (RCE)				
104 270 204	135 Multiple dependent claim	169	900	169	900	Request for expedited examination of a design application				
108 80 209	40 **Reissue independent claims over original	Other fee	(specify)	:						
110 18 210	patent 9 "Reissue claims in excess of 20 and over original patent	Other fee (specify):								
SUBTOTAL (2) (\$) 1,652.00 *Reduced by			by Basic	Basic Filing Fee Paid						
** or number previous	y paid, if greater, For Reissues, see above				SUBTOTAL					
SUBMITTED BY			Complete (if applic				licable)			
Name (Print/Type) Elizabeth J. Haanes, Ph.D.			5	Registration No. (Attorney/Agent)		42,613	Telephone	202-371-2600		
Signature Scholate J. Haard Date aml 5, 2001										
WARNING: Information on this form may become public. Credit card information should not										



STELLE, KESSLER, GOLDSTEIN & FOX P.L.L.C

ATTORNEYS AT LAW

1100 NEW YORK AVENUE, N.W. . WASHINGTON, D.C. 20005-3934

PHONE: (202) 371-2600 . FACSIMILE: (202) 371-2540 . www.skgf.com

ROBERT GREENE STERNE EDWARD J. KESSLER JORGE A. GOLDSTEIN SAMUEL L. FOX*** DAVID K.S. CORNWELL ROBERT W. ESMOND TRACY-GENE G. DURKIN MICHELE A. CIMBALA MICHAEL B. RAY ROBERT E. SOKOHL ERIC K. STEFFE MICHAEL O. LEE STEVEN R. LUDWIG JOHN M. COVERT*
LINDA E. ALCORN
ROBERT C. MILLONIG
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TIMOTHY J. SHEA, JR.
DONALD R. MCPHAIL
PATRICK E. GARRETT
STEPHEN G. WHITESIDE
JEFFREY T. HELVEY*
HEIDI L. KRAUS
JEFFREY R. KURIN
RAYMOND MILLIEN

PATRICK D. O'BRIEN
LAWRENCE B. BUGAISKY
CRYSTAL D. SAYLES
EDWARD W. YEE
ALBERT L. FERRO*
DONALD R. BANOWIT
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TERESA U. MEDLER
JEFFREY S. WEAVER
KRISTIN K. VIDOVICH
KENDRICK P. PATTERSON
DONALD J. FEATHERSTONE

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ALBERT J. FASULO II*
W. BRIAN EDGE*
ELDORA ELLISON FLOYD*
W. RUSSELL SWINDELL
THOMAS C. FIALA
LONNY L. MULLER*
BRIAN J. DEL BUONO*
VIRGIL L. BEASTON*
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KAREN R. MARKOWICZ**
SUZANNE E. ZISKA**
ANDREA J. KAMAGE**
NANCY J. LEITH**
ELIZABETH J. HAANES**
MARK P. TERRY**

*BAR OTHER THAN D.C.

**REGISTERED PATENT AGENT

***SENIOR COUNSEL

April 5, 2001

WRITER'S DIRECT NUMBER: (202) 218-7834
INTERNET ADDRESS:
BHAANES@SKGF.COM

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

(Divisional of Appl. No. 09/006,353; Filed: January 13, 1998)

Appl. No. To be assigned; Filed: Herewith For: **Tumor Necrosis Factor Receptor 5**

Inventors:

Wei et al.

Our Ref:

1488.1280006/EKS/EJH

Sir:

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The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3) (in duplicate);
- 3. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 4. Application Data Sheet Under 37 C.F.R. § 1.176
- 5. U.S. Utility Patent Application entitled:

TUMOR NECROSIS FACTOR RECEPTOR 5

Commissioner for Patents April 5, 2001 Page 2

and naming as inventors:

Ying-Fei WEI Reiner GENTZ Jian NI Steven M. RUBEN

the application consisting of:

- a. A specification containing:
 - i. 67 pages of description prior to the claims;
 - ii. <u>5</u> pages of claims (<u>22</u> claims);
 - iii. a one (1) page abstract;
- b. <u>23</u> sheets of drawings: (Figures 1A, 1B, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 3, 4, 5A, 5B-5C, and 6; and
- c. <u>36</u> pages of a paper copy of a sequence listing;
- d. A copy of the executed Declaration and Power of Attorney, as originally filed in U.S. Appl. No. <u>09/006,353</u>;
- e. A copy of an assignment to Human Genome Sciences, Inc., as recorded at reel: 9418; frame: 0772;
- 6. A Preliminary Amendment;
- 7. A computer readable copy of the sequence listing;
- 8. Copies of Associate Powers of Attorney filed on August 12, 1999 and April 25, 2000 along with the U.S. Patent and Trademark stamped returned postcard;
- 9. A copy of a Statement Concerning the Deposited cDNA Clone, as originally filed in U.S. Appl. No. 09/006,353;
- 10. A copy of the specification and drawings as originally filed in U.S. Appl. No. 09/006,353; which is incorporated herein by reference;

Commissioner for Patents April 5, 2001 Page 3

- 11. Two (2) return postcards; and
- 12. Our check No. **30849** for \$ 2,362.00 to cover:

\$ 710.00 Filing fee for patent application;

 $\frac{1,652.00}{1}$ Fee for excess claims.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Elizabeth J. Haanes, Ph.D.

Agent for Applicants Registration No. 42,613

EJH/pcd Encls.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Wei et al.

Appl. No.:

09/006,353

Art Unit: 1634

Filed: January 13, 1998

Examiner: O'Hara, E.

For:

Tumor Necrosis Factor Receptor 5

Docket No.: 1488.1280002/EKS/EJH

Statement Concerning the Deposited cDNA Clone

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The undersigned attorney of record hereby states:

- A plasmid containing human Tumor Necrosis Factor Receptor 5 cDNA was 1. deposited under the terms of the Budapest Treaty on November 20, 1996, at the American Type Culture Collection (ATCC), Patent Depository, 10801 University Boulevard, Manassas, Virginia 20110-2209 (current address), and given accession number 97798, as evidenced by the copy of the ATCC Deposit Receipt attached hereto.
- Assurance is hereby given that: (1) the deposit was made under terms of the 2. Budapest Treaty; (2) except for the limitations allowed by 37 C.F.R. § 1.808(b), all restrictions on the availability to the public of the deposit will be irrevocably removed upon the granting of a patent from the captioned application; (3) the deposit has been made under conditions such that access to the material will be available during the pendency of the captioned patent application to one determined by the Commissioner; and (4) the deposit will be maintained with the care necessary to keep it viable and uncontaminated for a period of at least five years after the most recent request for the furnishing of a sample of the deposit, and in any case, for a period of at least thirty years after the date of deposit or for the enforceable life of the patent, whichever period is longer.

Respectfully submitted

APRIL 17, 2000

Ionathan L. Klein

(Reg. No. 41,119)

Attorney for Applicants

Human Genome Sciences, Inc.

9410 Key-West Avenue Rockville, MD 20850

Telephone: (301) 251-6015

(M # ± And H. H. H. H. 1111

Docket:

Due Date:

1488.1280002

Atty:

EKS/EJH

Application No.: 09/006,353

Wei et al.

January 13, 1998

Tumor Necrosis Factor Receptor 5

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents: PTO Transmittal Letter (in duplicate);

Filed:

Applicant:

Fee Transmittal Form (PTO/SB/17) (in duplicate);

Amendment and Reply Under 37 C.F.R. § 1.111;

An original Associate Power of Attorney executed by Attorney of Record Kenley K. Hoover,

A Statement Concerning the Deposited cDNA Clone executed by attorney of record Jonathan L. Klein, with attached ATCC Deposit Receipt; A Declaration of Ying-Fei Wei, Jian Ni, Reiner Gentz, and Steven Ruben Under 37 C.F.R. § 1.131 along with attached Exhibit A (in two

A Substitute Specification submitted Under 37 C.F.R. § 1.125(b);

A marked up copy of the Substitute Specification;

Substitute Figures labeled 1A, 1B, 2A, 2B, 2C, and 2D,

Copies of the pages of Figures 1 and 2 as originally filed, with the proposed changes shown in red;

A copy of the abstract of Chou and Roizman, J. Virol. 57:629-637 (1986);
 A Petition of Extension of Time (in duplicate); and

13. Our check no. 27356 in the amount of \$1,584.00 to cover the fee:

\$714.00 Extra claims; and

\$870.00 For Extension of Time.

Please Date Stamp And Return To Our Courier

Due Date: N/A

Atty:

WEI et al. Art Unit: 1646

> Examiner: Fitzgerald, D.

> > EKS/EJH

Application No.: Docket: 1488.1280002 Filed:

> For: **Tumor Necrosis Factor Receptor 5**

When receipt stamp is placed hereon, the USPTO acknowledges receipt of the following documents:

1. Transmittal Letter (in duplicate);

Applicant:

2. Change of Correspondence Address (Form PTO/SB/122); and

09/006,353

January 13, 1998

3. Associate Power of Attorney.



Box:

Please Date Stamp And Return To Our Courier

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wei et al.

Appl. No. To be assigned

(Divisional of Appl. No. 09/006,353; Filed: January 13,

Filed: Herewith

For:

Tumor Necrosis Factor Receptor 5

Confirmation No. To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket:1488.1280006/EKS/EJH

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Elizabeth J. Haanes, Ph.D.

Agent for Applicants

Registration No. 42,613

1100 New York Avenue, N.W.

Suite 600

Washington, D.C. 20005-3934

(202) 371-2600